

## **What is claimed is:**

**[Claim 1] 1. A method for erasing a re-writable disk the method comprising:**

when fully erasing the re-writable disk and a write fail occurs, determining whether the write fail occurs in a program area of the re-writable disc;  
if the write fail occurs in the program area of the re-writable disk, writing mode 0 data on locations following a location where the write fail occurs; and  
if the write fail does not occur in the program area of the re-writable disk, issuing a write fail message to a host.

**[Claim 2] 2. The method of claim 1 wherein the write fail message is a servo fail message.**

**[Claim 3] 3. The method of claim 1 wherein the write fail is an ATIP unlocked interrupt.**

**[Claim 4] 4. The method of claim 1 wherein the step of writing mode 0 data on locations following the location where the write fail occurs comprises driving a pick-up head to the location where the write fail occurs for writing mode 0 data on locations following the location where the write fail occurs.**

**[Claim 5] 5. A method for erasing a re-writable disk comprising:**

when fully erasing the re-writable disk, writing mode 0 data into the re-writable disk;  
when a write fail occurs, determining whether the write fail occurs in a program area of the re-writable disk; and  
if the write fail occurs in the program area of the re-writable disk, writing the mode 0 data in the program area of the re-writable disk.

**[Claim 6]** 6. The method of claim 5 further comprising if the write fail does not occur in the program area of the re-writable disk, issuing a write fail message to a host.

**[Claim 7]** 7. The method of claim 6 wherein the write fail message is a servo fail message.

**[Claim 8]** 8. The method of claim 5 wherein the write fail is an ATIP unlocked interrupt.

**[Claim 9]** 9. The method of claim 5 wherein the step of writing the mode 0 data in the program area of the re-writable disk comprises writing the mode 0 data on locations following the location where the write fail occurs.

**[Claim 10]** 10. The method of claim 9 wherein the step of writing mode 0 data on locations following the location where the write fail occurs comprises driving a pick-up head to the location where the write fail occurs for writing mode 0 data on locations following the location where the write fail occurs.